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ABSTRACT OF THE DISCLOSURE

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A control device useful for adjusting the position, velocity, or acceleration of an apparatus is provided. The control device includes a shaped integral magnet having outer walls of a desired curvature. Radially disposed about the outer walls are one or more magnetic sensors. Movement of the magnet changes the magnetic flux passing through the sensors, generating a unique transfer function output signal useful to control the apparatus. By varying the curvature of the outer walls, the transfer function voltage curve is tailored for specific applications.

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